

09982982\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 09982982 on February 17, 2004

Original Classifications

2 29/603.14  
2 346/137  
2 360/327.31  
2 369/13.35  
2 369/275.1 ✓

Cross-Reference Classifications

6 428/900  
5 428/611  
4 346/135.1  
4 430/945  
3 369/284 ✓  
3 427/131  
3 428/336  
3 428/694TS  
2 29/603.15  
2 235/449  
2 360/122  
2 360/59  
2 369/275.4 ✓  
2 369/286  
2 369/287  
2 369/288  
2 369/94  
2 427/132  
2 428/678  
2 428/694BA  
2 428/694BM  
2 428/694T  
2 428/694TM  
2 428/913  
2 430/270.12  
2 430/964

Combined Classifications

6 428/900  
5 346/135.1  
5 428/611  
4 369/284  
4 427/131  
4 428/694TS  
4 430/945  
3 29/603.14

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3 360/59  
3 369/275.4  
3 428/336  
2 29/603.15  
2 235/449  
2 250/306  
2 340/572.6  
2 346/137  
2 360/122  
2 360/322  
2 360/324.12  
2 360/327.31  
2 369/126  
2 369/13.35  
2 369/275.1 ✓  
2 369/275.3 ✓  
2 369/286  
2 369/287  
2 369/288  
2 369/94  
2 427/132  
2 428/678  
2 428/694BA  
2 428/694BM  
2 428/694T  
2 428/694TM  
2 428/913  
2 430/270.12  
2 430/964

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Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09982982 on February 17, 2004

- 6 428/900 (0 OR, 6 XR)
  - Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
  - 428/900 MAGNETIC FEATURE
- 5 346/135.1 (1 OR, 4 XR)
  - Class 346 : RECORDERS
  - 346/134 RECORD RECEIVERS AND/OR DRIVING MEANS THEREFOR
  - 346/135.1 .Laminated, impregnated, or coated bases
- 5 428/611 (0 OR, 5 XR)
  - Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
  - 428/544 ALL METAL OR WITH ADJACENT METALS
  - 428/611 .Having magnetic properties, or preformed fiber orientation coordinate with shape
- 4 369/284 (1 OR, 3 XR)
  - Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL
  - 369/272 STORAGE MEDIUM STRUCTURE
  - 369/283 .Layered (e.g., permanent protective layer)
  - 369/284 ..Radiation beam modified or controlling (e.g., photosensitive, optical track)
- 4 427/131 (1 OR, 3 XR)
  - Class 427 : COATING PROCESSES
  - 427/127 MAGNETIC BASE OR COATING
  - 427/128 .Magnetic coating
  - 427/131 ..Applying superposed diverse coating or coating a coated base
- 4 428/694TS (1 OR, 3 XR)
  - Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
  - 428/411.1 COMPOSITE (NONSTRUCTURAL LAMINATE)
  - 428/688 .Of inorganic material
  - 428/689 ..Metal-compound-containing layer
  - 428/692 ...Defined magnetic layer
  - 428/694R ....Dynamic recording medium
  - 428/694T .....Metal thin film magnetic layer
  - 428/694TS .....Specified subbing or underlayer
- 4 430/945 (0 OR, 4 XR)

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Class 430 : RADIATION IMAGERY CHEMISTRY: PROCESS,  
COMPOSITION, OR PRODUCT THEREOF  
430/945 LASER BEAM

3 29/603.14 (2 OR, 1 XR)

Class 029 : METAL WORKING

29/592 METHOD OF MECHANICAL MANUFACTURE

29/592.1 .Electrical device making

29/602.1 ..Electromagnet, transformer or inductor

29/603.01 ...Magnetic recording reproducing transducer  
(e.g., tape head, core, etc.)

29/603.07 ....Fabricating head structure or component  
thereof

29/603.09 .....Including measuring or testing

29/603.13 .....Depositing magnetic layer or coating

29/603.14 .....Plural magnetic deposition layers

3 360/59 (1 OR, 2 XR)

Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR  
RETRIEVAL

360/55 GENERAL RECORDING OR REPRODUCING

360/59 .Thermomagnetic recording or transducers

3 369/275.4 (1 OR, 2 XR)

Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL

369/272 STORAGE MEDIUM STRUCTURE

369/275.1 .Optical track structure (e.g., phase or  
diffracting structure, etc.)

369/275.4 ..Pit/bubble/groove structure specifies

3 428/336 (0 OR, 3 XR)

Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES

428/221 WEB OR SHEET CONTAINING STRUCTURALLY DEFINED  
ELEMENT OR COMPONENT

428/332 .Physical dimension specified

428/334 ..Coating layer not in excess of 5 mils thick  
or equivalent

428/335 ...Up to 3 mils

428/336 ....1 mil or less

2 29/603.15 (0 OR, 2 XR)

Class 029 : METAL WORKING

29/592 METHOD OF MECHANICAL MANUFACTURE

29/592.1 .Electrical device making

29/602.1 ..Electromagnet, transformer or inductor

29/603.01 ...Magnetic recording reproducing transducer  
(e.g., tape head, core, etc.)

29/603.07 ....Fabricating head structure or component

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thereof

29/603.09 .....Including measuring or testing  
 29/603.13 .....Depositing magnetic layer or coating  
 29/603.15 .....With etching or machining of magnetic  
 material

2 235/449 (0 OR, 2 XR)

Class 235 : REGISTERS

235/435 CODED RECORD SENSORS

235/439 .Particular sensor structure

235/449 ..Magnetic

2 250/306 (1 OR, 1 XR)

Class 250 : RADIANT ENERGY

250/306 INSPECTION OF SOLIDS OR LIQUIDS BY CHARGED  
 PARTICLES

2 340/572.6 (1 OR, 1 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/500 CONDITION RESPONSIVE INDICATING SYSTEM

340/540 .Specific condition

340/568.1 ..Article placement or removal (e.g.,  
 anti-theft)

340/572.1 ...Detectable device on protected article  
 (e.g., "tag")

340/572.6 ....Having "soft" magnetic element (e.g.,  
 Permalloy)

2 346/137 (2 OR, 0 XR)

Class 346 : RECORDERS

346/134 RECORD RECEIVERS AND/OR DRIVING MEANS THEREFOR

346/137 .Disc

2 360/122 (0 OR, 2 XR)

Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR  
 RETRIEVAL

360/324.1 ...Having one film pinned (e.g., spin valve)

360/122 .Head surface structure

2 360/322 (1 OR, 1 XR)

Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR  
 RETRIEVAL

360/110 HEAD

360/313 .Magnetoresistive (MR) reproducing head

360/322 ..Detail of sense conductor

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2 360/324.12 (1 OR, 1 XR)  
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR  
 RETRIEVAL  
 360/110 HEAD  
 360/313 .Magnetoresistive (MR) reproducing head  
 360/324 ..Having Giant Magnetoresistive (GMR) or  
 Colossal Magnetoresistive (CMR) sensor fo  
 rmed of multiple  
 thin films  
 360/324.1 ...Having one film pinned (e.g., spin valve)  
 360/324.12 ....Detail of free layer or additional film fo  
 r  
 affecting or biasing the free layer

2 360/327.31 (2 OR, 0 XR)  
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR  
 RETRIEVAL  
 360/110 HEAD  
 360/313 .Magnetoresistive (MR) reproducing head  
 360/327 ..Having Anisotropic Magnetoresistive (AMR)  
 sensor formed of a single thin film  
 360/327.3 ...Detail of longitudinal biasing  
 360/327.31 ....Using a permanent magnet

2 369/126 (1 OR, 1 XR)  
 Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL  
 369/99 SPECIFIC DETAIL OF INFORMATION HANDLING PORTIO  
 N  
 OF SYSTEM  
 369/126 .Electrical modification or sensing of storage  
 medium (e.g., capacitive, resistive, electr  
 ostatic charge)

2 369/13.35 (2 OR, 0 XR)  
 Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL  
 369/13.01 STORAGE OR RETRIEVAL BY SIMULTANEOUS  
 APPLICATION OF DIVERSE TYPES OF ELECTROMA  
 GNETIC RADIATION

369/13.02 .Magnetic field and light beam  
 369/13.35 ..Specific detail of recording medium

2 369/275.1 (2 OR, 0 XR)  
 Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL  
 369/272 STORAGE MEDIUM STRUCTURE  
 369/275.1 .Optical track structure (e.g., phase or

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diffracting structure, etc.)

2 369/275.3 (1 OR, 1 XR)  
Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL  
369/272 STORAGE MEDIUM STRUCTURE  
369/275.1 .Optical track structure (e.g., phase or  
diffracting structure, etc.)  
369/275.3 ..Track data format/layout

2 369/286 (0 OR, 2 XR)  
Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL  
369/272 STORAGE MEDIUM STRUCTURE  
369/283 .Layered (e.g., permanent protective layer)  
369/286 ..Laminated or unified discrete layers

2 369/287 (0 OR, 2 XR)  
Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL  
369/272 STORAGE MEDIUM STRUCTURE  
369/287 .Flexible

2 369/288 (0 OR, 2 XR)  
Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL  
369/272 STORAGE MEDIUM STRUCTURE  
369/288 .Specified material

2 369/94 (0 OR, 2 XR)  
Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL  
369/93 SYSTEMS HAVING PLURAL PHYSICALLY DISTINCT  
INDEPENDENT TRACKS ON A SINGLE STORAGE MED

IUM SURFACE

369/94 .Having layered storage medium

2 427/132 (0 OR, 2 XR)  
Class 427 : COATING PROCESSES  
427/127 MAGNETIC BASE OR COATING  
427/128 .Magnetic coating  
427/132 ..Metal coating

2 428/678 (0 OR, 2 XR)  
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
428/544 ALL METAL OR WITH ADJACENT METALS  
428/615 .Composite; i.e., plural, adjacent, spatially  
distinct metal components (e.g., layers,  
joint, etc.)  
428/655 ..Transition metal-base component  
428/668 ...Group VIII or IB metal-base component  
428/678 ....Co-, Fe-, or Ni-base components,  
alternative to each other

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2 428/694BA (0 OR, 2 XR)  
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
 428/411.1 COMPOSITE (NONSTRUCTURAL LAMINATE)  
 428/688 .Of inorganic material  
 428/689 ..Metal-compound-containing layer  
 428/692 ...Defined magnetic layer  
 428/694R ....Dynamic recording medium  
 428/694B .....Binder containing magnetic layer  
 428/694BA .....Magnetic particle with specified shape o

r

dimension

2 428/694BM (0 OR, 2 XR)  
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
 428/411.1 COMPOSITE (NONSTRUCTURAL LAMINATE)  
 428/688 .Of inorganic material  
 428/689 ..Metal-compound-containing layer  
 428/692 ...Defined magnetic layer  
 428/694R ....Dynamic recording medium  
 428/694B .....Binder containing magnetic layer  
 428/694BM .....Multiple magnetic layers

2 428/694T (0 OR, 2 XR)  
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
 428/411.1 COMPOSITE (NONSTRUCTURAL LAMINATE)  
 428/688 .Of inorganic material  
 428/689 ..Metal-compound-containing layer  
 428/692 ...Defined magnetic layer  
 428/694R ....Dynamic recording medium  
 428/694T .....Metal thin film magnetic layer

2 428/694TM (0 OR, 2 XR)  
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
 428/411.1 COMPOSITE (NONSTRUCTURAL LAMINATE)  
 428/688 .Of inorganic material  
 428/689 ..Metal-compound-containing layer  
 428/692 ...Defined magnetic layer  
 428/694R ....Dynamic recording medium  
 428/694T .....Metal thin film magnetic layer  
 428/694TM .....Multiple magnetic layer

2 428/913 (0 OR, 2 XR)  
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
 428/913 MATERIAL DESIGNED TO BE RESPONSIVE TO  
 TEMPERATURE, LIGHT, MOISTURE, ETC.

2 430/270.12 (0 OR, 2 XR)



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Class 430 : RADIATION IMAGERY CHEMISTRY: PROCESS,  
COMPOSITION, OR PRODUCT THEREOF  
430/269 IMAGING AFFECTING PHYSICAL PROPERTY OF  
RADIATION SENSITIVE MATERIAL, OR PRODUCI  
NG NONPLANAR OR  
PRINTING SURFACE - PROCESS, COMPOSITION,  
OR PRODUCT  
430/270.1 .Radiation sensitive composition or product or  
process of making  
430/270.11 ..Optical recording nonstructural layered  
product having a radiation sensitive compo  
sition layer  
claimed or solely disclosed as optically r  
eorderable and  
optically machine readable  
430/270.12 ...Having read-write layer of 100 per cent  
inorganic composition

2 430/964 (0 OR, 2 XR)  
Class 430 : RADIATION IMAGERY CHEMISTRY: PROCESS,  
COMPOSITION, OR PRODUCT THEREOF  
430/964 THERMAL IMAGING COMPOSITION